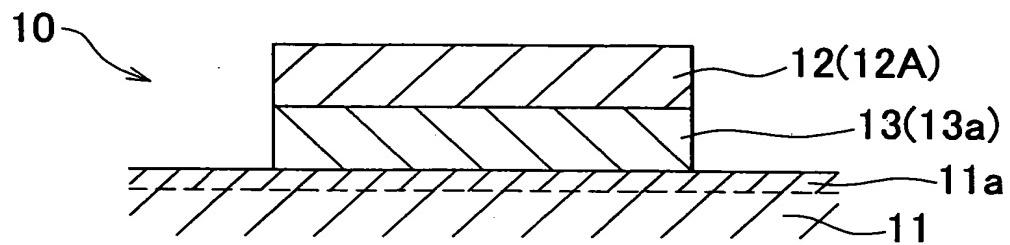
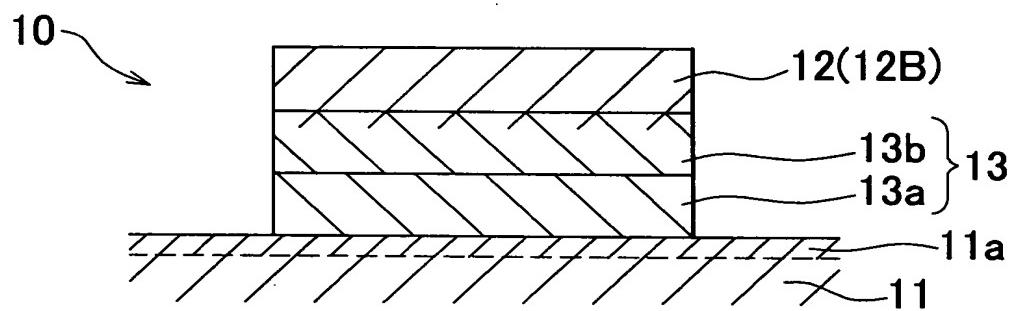


F I G. 1



F I G. 2



F I G. 3

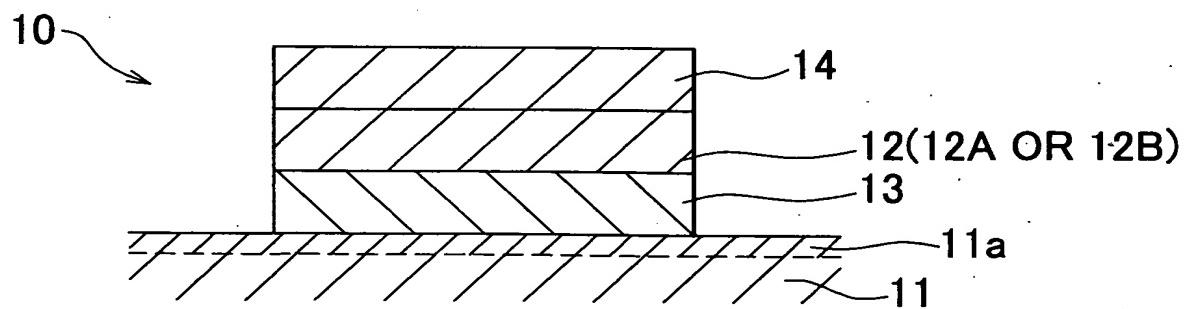
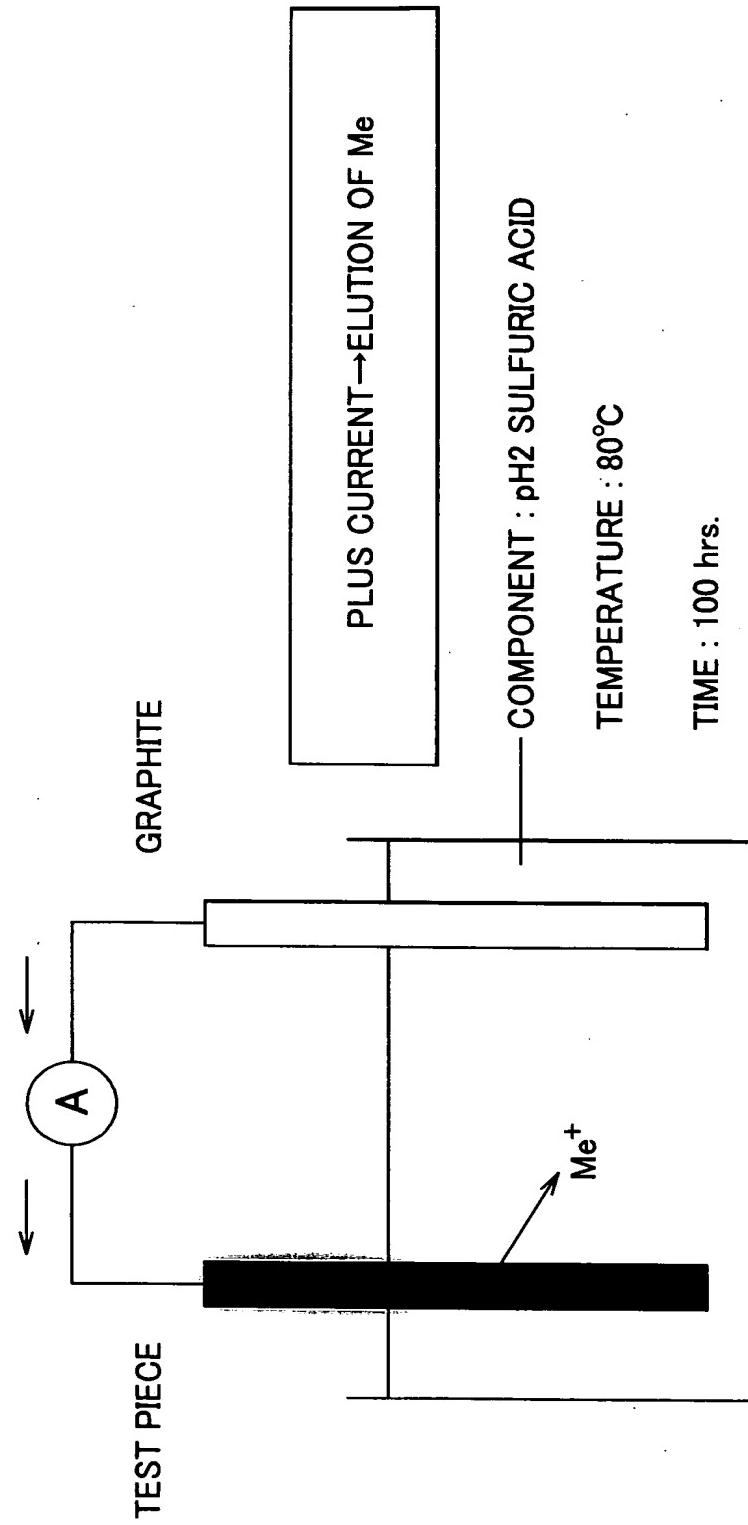


FIG. 4



COUPLE CURRENT TEST METHOD

FIG. 5

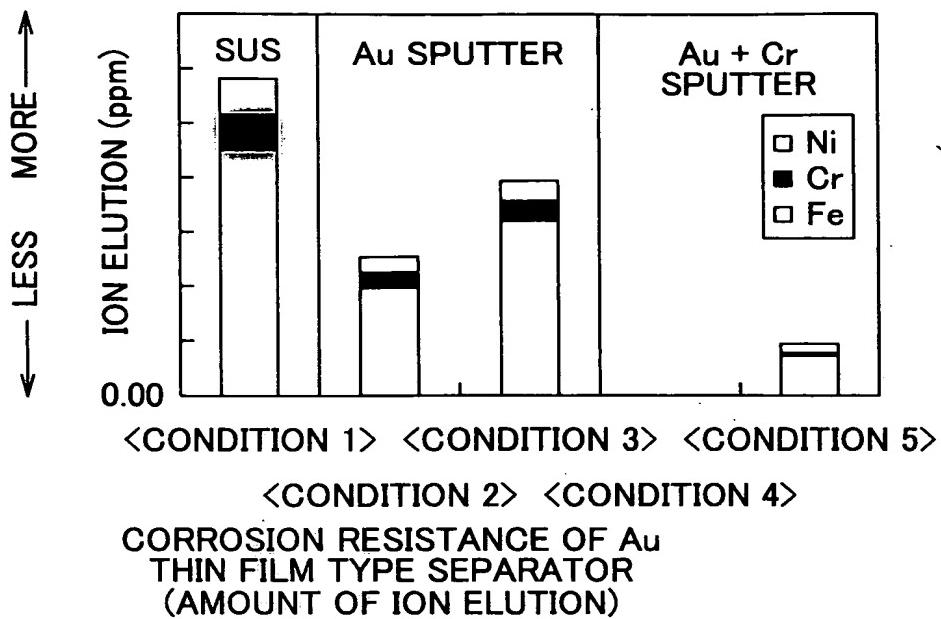


FIG. 6

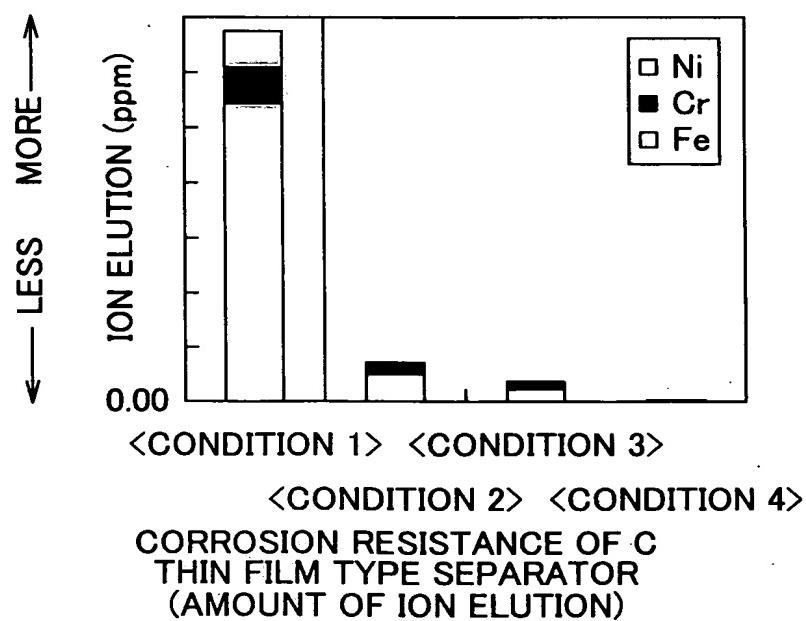
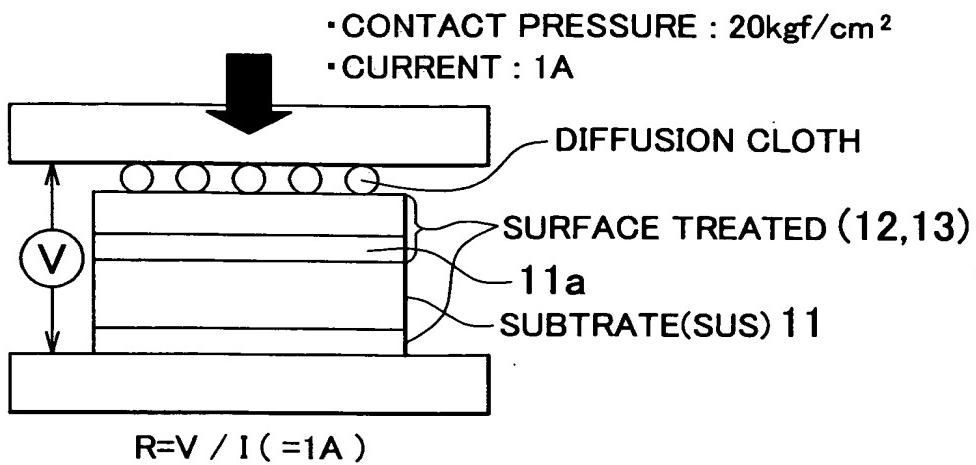
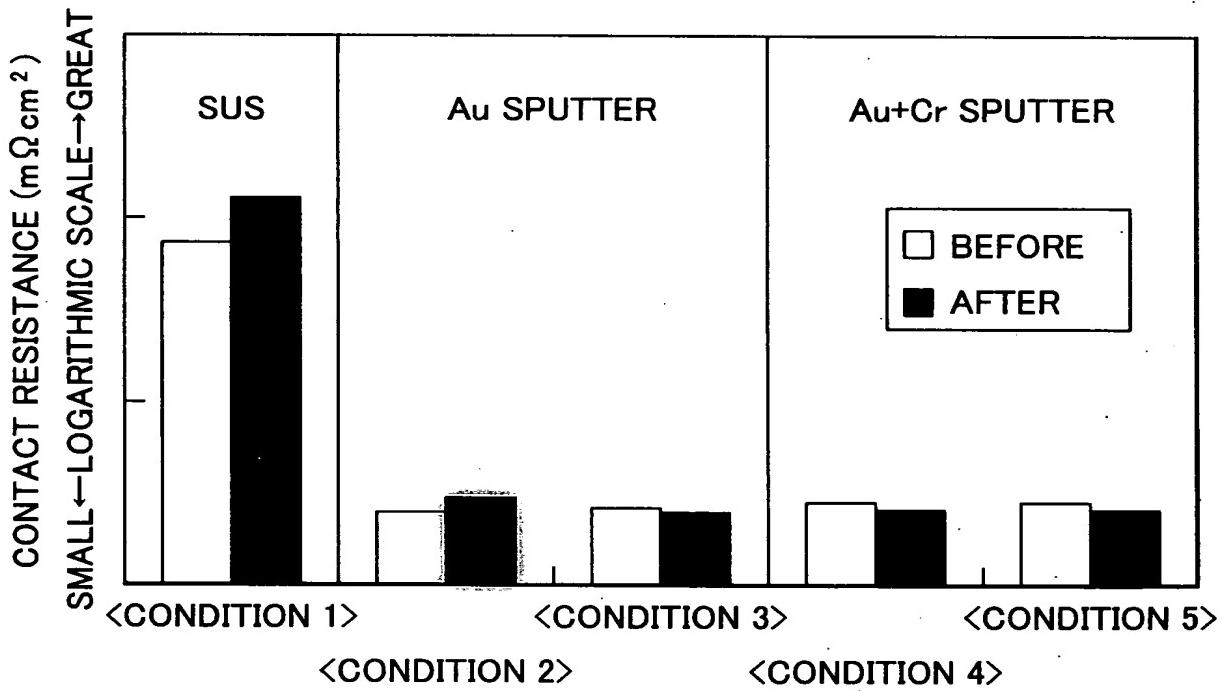


FIG. 7



CONTACT RESISTANCE TEST METHOD

FIG. 8



CONTACT RESISTANCE OF Au THIN FILM TYPE SEPARATOR BEFORE AND AFTER CORROSION TEST

F I G. 9

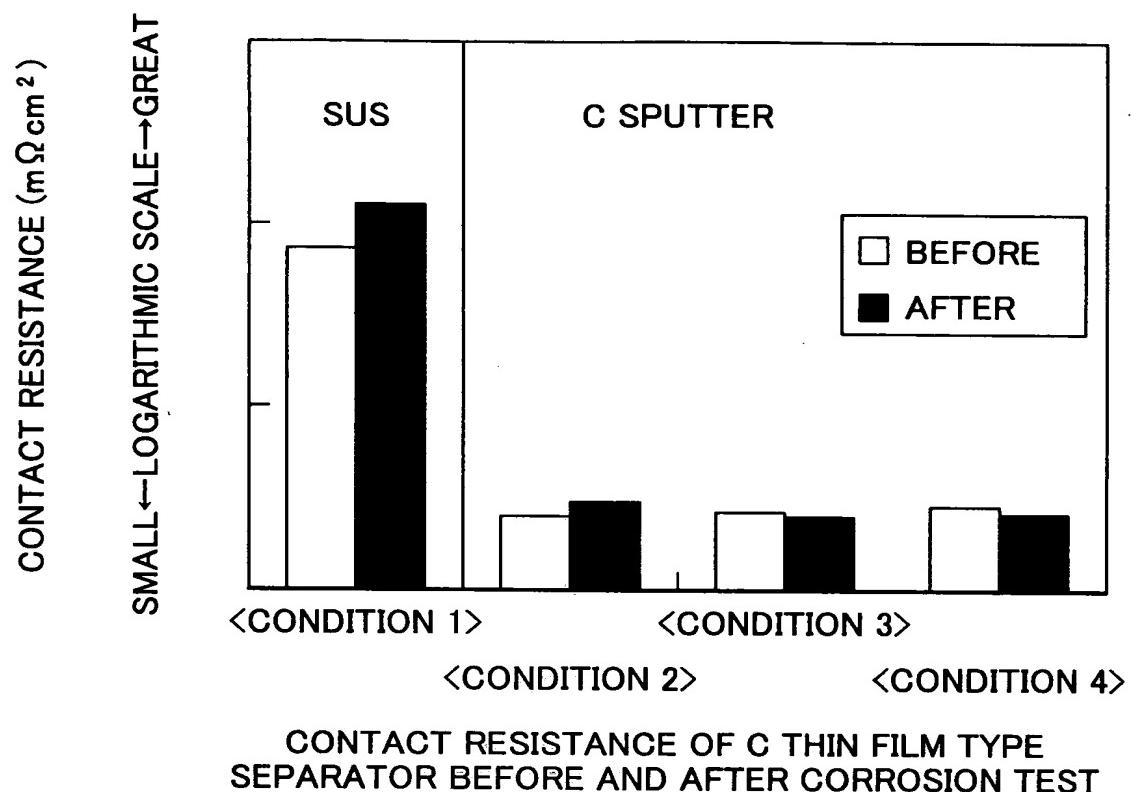
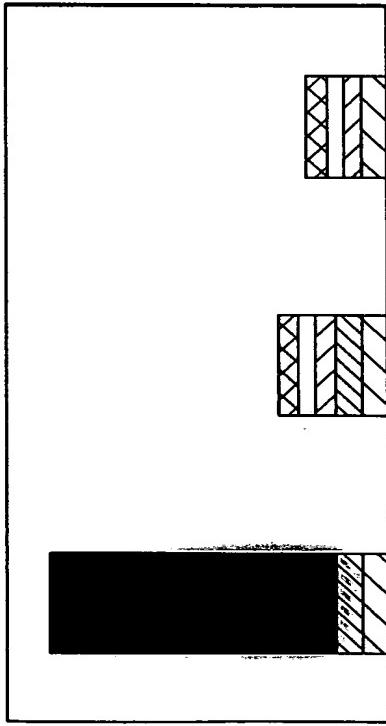


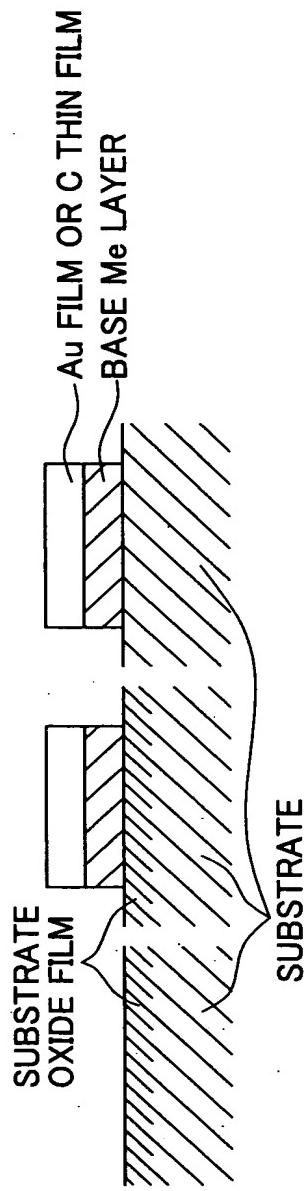
FIG. 10

<CONDITION 1> <CONDITION 4> <CONDITION 5>

CONTACT RESISTANCE($\text{m}\Omega \text{cm}^2$)



- : CONTACT RESISTANCE OF DIFFUSION CLOTH (CARBON CLOTH) AND SUBSTRATE OXIDE FILM
- ▨ : CONTACT RESISTANCE OF DIFFUSION CLOTH (CARBON CLOTH) AND Au FILM OR C THIN FILM
- : RESISTANCE OF Au FILM, C THIN FILM
- ▨ : RESISTANCE OF BASE FILM
- : RESISTANCE OF SUBSTRATE OXIDE FILM
- ▨ : RESISTANCE OF SUBSTRATE



CONSTRUCTION OF SURFACE TREATMENT AND
CONTACT RESISTANCE COMPONENTS (CONCEPTUAL)

FIG. 11

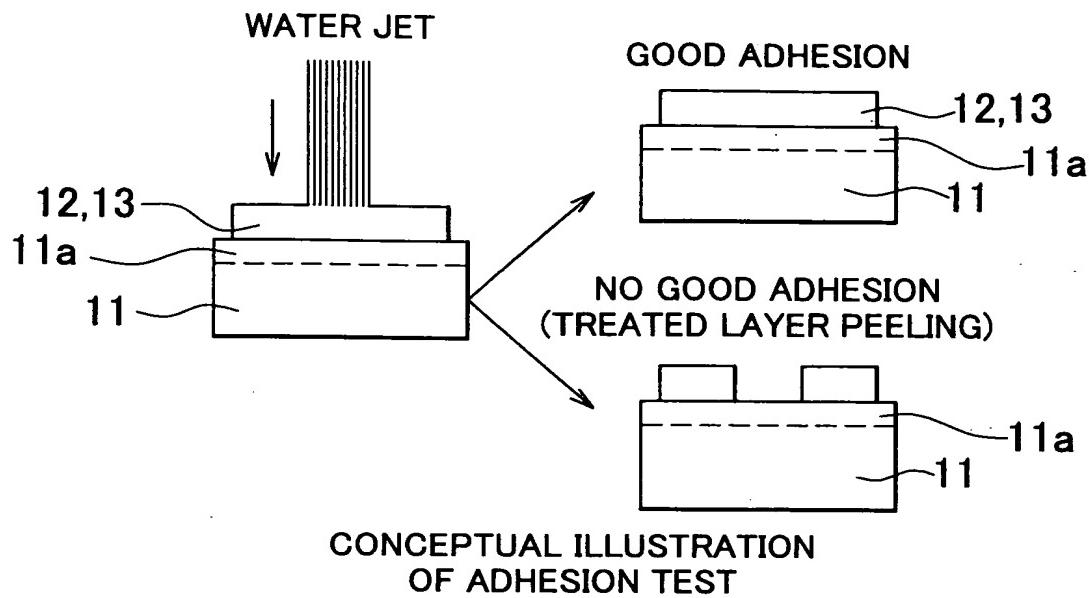
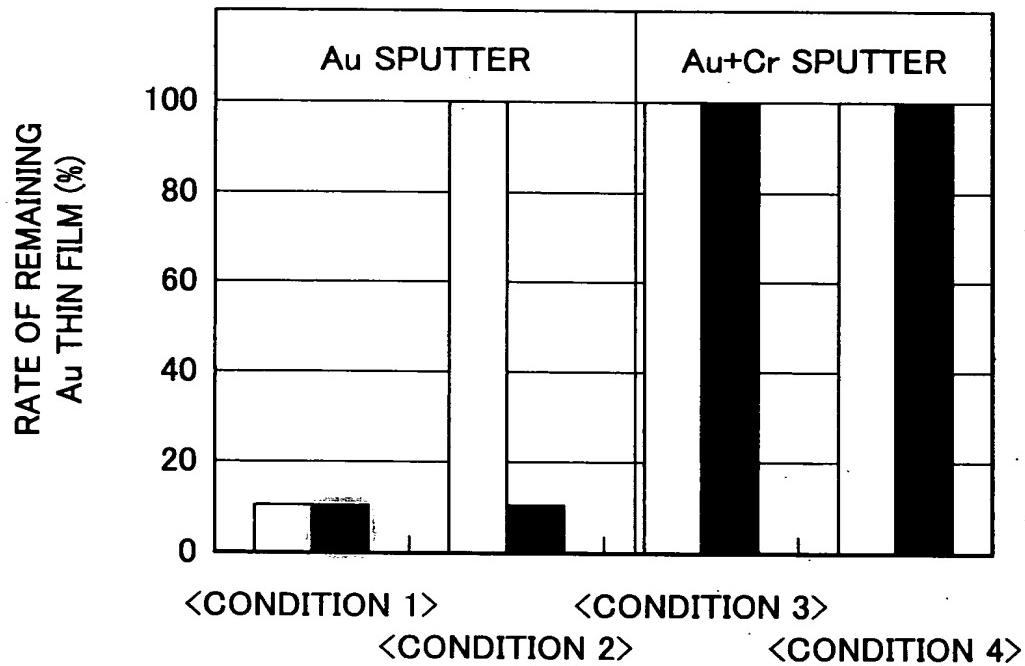


FIG. 12



ADHESION OF Au THIN FILM TYPE SEPARATIOR

F I G. 13

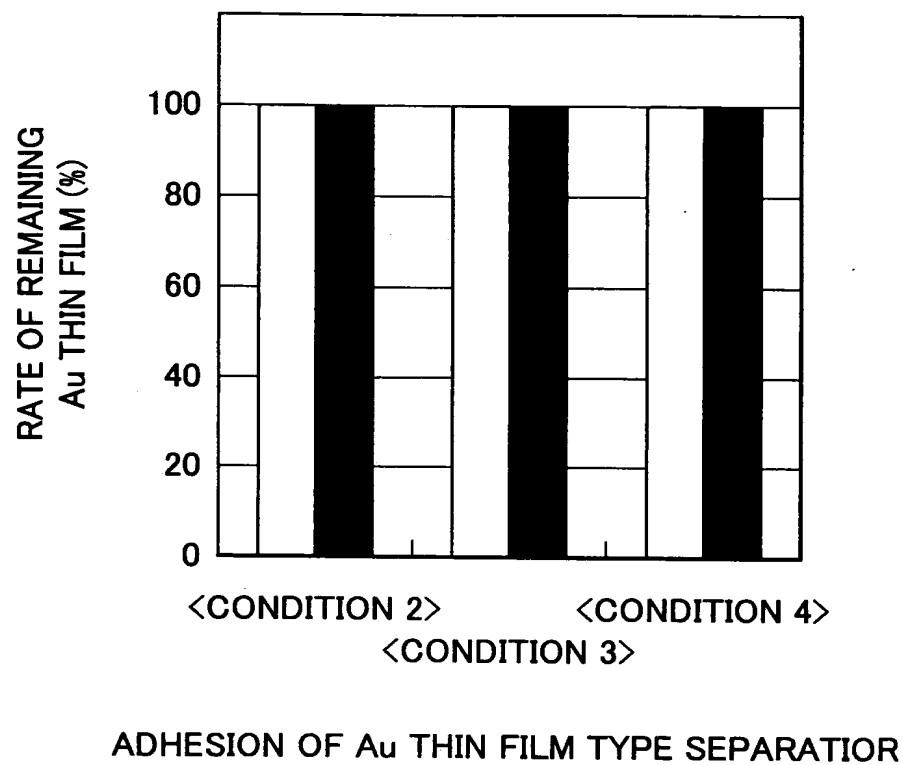


FIG. 14A

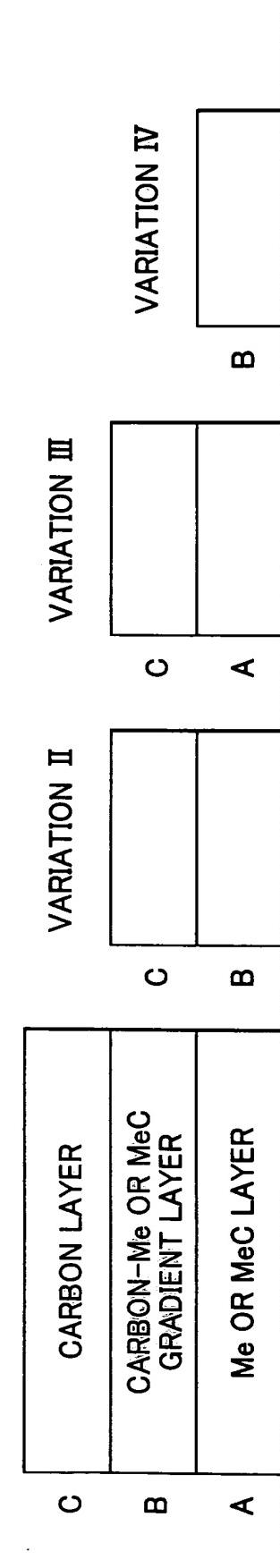
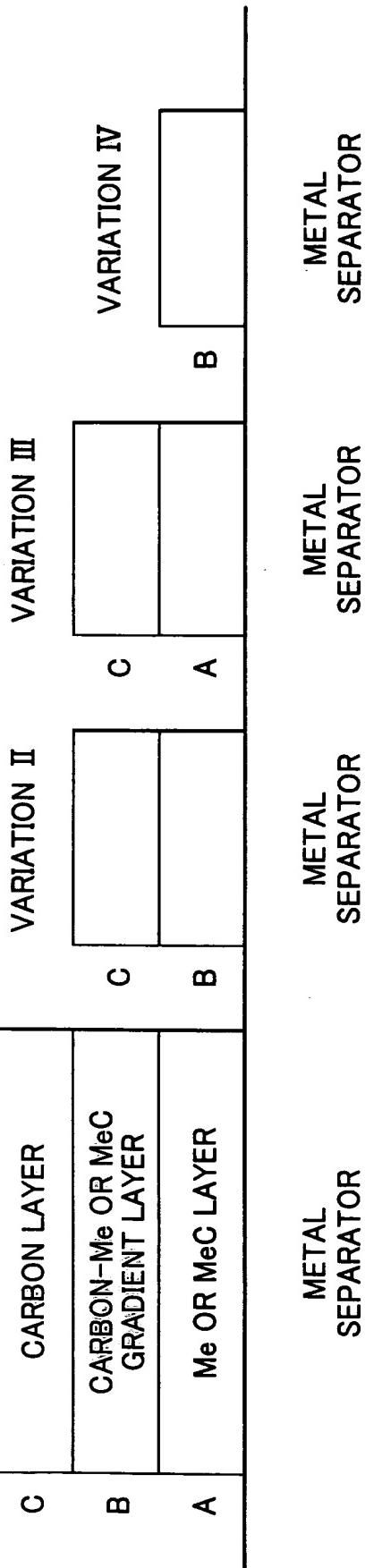


FIG. 14B



METAL
SEPARATOR

METAL
SEPARATOR

METAL
SEPARATOR

METAL
SEPARATOR

FIG. 14E

VARIATION V

G	CARBON LAYER
F	CARBON-Me(A) OR Me(A)C GRADIENT LAYER
E	Me(A) OR Me(A)C-Me(B) OR Me(B)C GRADIENT LAYER
D	Me(B) OR Me(B)C LAYER

FIG. 14G

VARIATION F

VARIATION VI

G	VARIATION VII	
F	G	VARIATION VIII
E	F	F
D	E	E

FIG. 14H

METAL
SEPARATOR

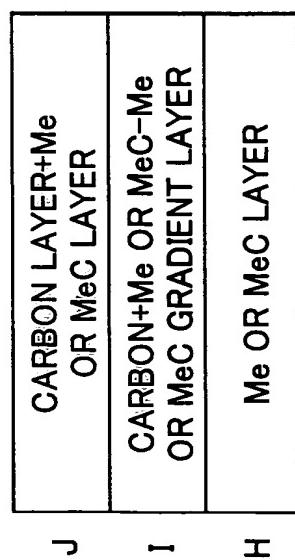
METAL
SEPARATOR

METAL
SEPARATOR

FIG. 14 I

FIG. 14 K

FIG. 14 J

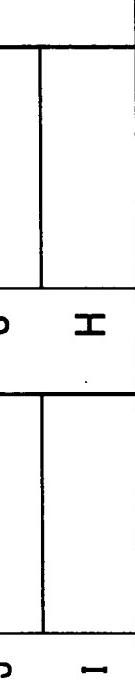
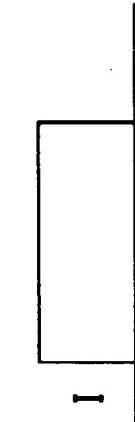


VARIATION IX

VARIATION X

VARIATION X I

VARIATION X II



METAL
SEPARATOR

METAL
SEPARATOR

METAL
SEPARATOR

FIG. 14 L